



2000

*Chief of Engineers Design and Environmental Awards Program*



*This brochure marks the completion of the Chief of Engineers Design and Environmental Awards Program - 2000. This program recognizes the design excellence demonstrated by completed projects and professional works accomplished by U.S. Army Corps of Engineers (USACE) team members and our private sector partners.*

*Two panels of nationally recognized design and environmental professionals selected twenty projects for awards from the sixty-nine entries submitted by USACE activities. The number of awards and the comments of the juries indicate that our designs continue to meet the highest professional standards. I appreciate the jury members who gave enthusiastically of their time and expertise to make this program a success.*

*The quality of the entries this year demonstrates the USACE commitment to satisfying our customers, building the USACE team, and serving the Army, the Air Force, the Department of Defense, and the Nation. I extend my personal appreciation to the USACE team members and private sector contractors who designed, constructed and presented the projects offered for judging this year.*

*I take great pleasure in presenting you this year's winners of the Chief of Engineers Design and Environmental Awards Program.*

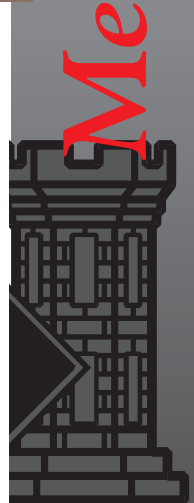


**JOE N. BALLARD**

*Lieutenant General, USA  
Chief of Engineers*



**Message from the Chief:**



# Program History:

*The Chief of Engineers Design and Environmental Awards Program was created in 1965 to recognize and promote excellence in the design and environmental achievement by USACE and its professional partners. The program has presented a total of 449 awards in the 26 times it was judged.*

*This year the program was judged in two categories, **Design** and **Environmental**. Constructed projects and professional works may be submitted in either category. Two interdisciplinary juries selected a total of 20 projects for awards. The juries met on February 28-29, 2000, at USACE headquarters in Washington, DC.*

*The program presents three types of awards.*

*The **Chief of Engineers Award of Excellence** is the highest award. Only one award may be given for an entry in each of the two categories. This award can only be given by unanimous decision of the jury for an entry that truly exhibits excellence in all major professional design disciplines. The jury is not obligated to nominate any entry for this award, however, this year the juries gave the award in both categories.*

***Honor Awards** are given in both the categories to entries which demonstrate or stimulate excellence in each of the design disciplines. The juries determine the number of awards. An honor award can only be given to an entry based on a majority decision of the jury and when no juror casts a dissenting vote.*

***Merit Awards** are also given for projects in both categories. Merit awards may be related to individual disciplines (e.g., a Merit Award in architecture, landscape architecture, interior design, engineering, environmental design, planning, energy conservation) or for excellence in multiple disciplines. The juries determine the number and type of merit awards. A merit award can be given to an entry based on the recommendation of a single juror if no jurors offer dissenting votes.*

***Chief of Engineers Award of Excellence:***

***Rodman Materials Research Laboratory,  
Aberdeen Proving Ground, Maryland***

***Honor Awards:***

***910th Wing Headquarters,  
Youngstown Air Reserve Center, Ohio***

***Brigade Area Barracks Revitalization,  
Fort Bragg, North Carolina***

***Merit Awards:***

***Renovation of Building 68, Rock Island Arsenal,  
Rock Island, Illinois***

***Renovation of Barracks, Building 47,  
Fort McNair, District of Columbia***

***BRAC III KC-10 Maintenance Hangar Complex,  
McGuire Air Force Base, New Jersey***

***Design/Build Whole Neighborhood Replacement,  
Harrison Villa, Phase I,  
Fort Lee, Virginia***

***Summary Development Plan,  
Schweinfurt, Germany***

***Information Systems Facility,  
Fort Carson, Colorado***

***Recreational Pool / “Water Spout” Aquatic Center,  
Fort Buchanan, Bayamon, Puerto Rico***



*Design Awards*  
**Award of Excellence:**  
**Chief of Engineers**

*Rodman Materials Research Laboratory  
Aberdeen Proving Ground, Maryland*

*Design Firms:*

*The Benham Group, Oklahoma City, Oklahoma*

*Syska and Hennessy Engineers, New York, New York*

*Design Agency:*

*U.S. Army Engineer District, Baltimore*



*The laboratory demonstrates excellence from initial site planning to the detailing of the receptionist desk.*





*A clear expression of a complete program expressed in discreet forms connected by a circulation spine.*



*This is a world-class center of excellence for materials research and development, providing a state-of-the-art research environment in 149 laboratories. The layout fosters teamwork by emphasizing the visibility of people moving within the building. A secure exterior courtyard between administrative and research space allows personnel to discuss classified work outside while remaining in a secure environment. The facility was designed in 60 percent of the time normally required for a project of this type. It was built on schedule and seven percent below the \$80 million budget. The new facility will save the federal government about \$20,000,000 annually. The lab has fostered successful recruitment of top research staff, and technologies emerging from its research programs are critical to the capabilities needed for the Army of the 21st century.*



*Excellent integration with the site, amenities, choice of materials, and varied massing help provide a wonderful facility.*

### **910th Wing Headquarters Youngstown Air Reserve Center, Ohio**

**Design Firm:**  
**KZF Incorporated,**  
**Cincinnati, Ohio**

**Design Agency:**  
**U.S. Army Engineer District, Louisville**

*The two-story 36,000-square-foot Wing Headquarters Building supports the management and training of the C-130 wing. It consolidates the required support organizations into a flexible facility that combines open office efficiency with the required privacy and security for each occupant. The interior curved wall, in a metallic finish, is the principal visual design feature. A large second floor window in this curved wall, centered on the axis of the boulevard outside, enables the command section to literally oversee the lobby, the spine of the base, and the airfield beyond.*



*Glazing opens up the space with light and air.*



*Design of workstations eliminates sharp edges by rounding corners.*



*The skillful use of modest materials, fenestration and overall composition elevates this building's contribution to a very high level.*



*The siting of this building provides an excellent solution to the larger context of the base, a terminus to an important boulevard.*



***Brigade Area Barracks  
Revitalization  
Fort Bragg, North Carolina***

*Design Firm:  
Rosser International,  
Atlanta, Georgia*

*Design Agency:  
U.S. Army Engineer District, Savannah*

*The \$74 million new brigade area includes housing for 900 single enlisted soldiers, five administrative headquarters buildings, 17 company operations facilities, and an 800-person dining facility. The aesthetic calls upon the classic design of military architecture of the 1920s and 1930s found throughout Fort Bragg. A comprehensive interior design and furnishings package was part of the design solution. Buildings were developed around courtyards to provide passive recreation within the landscaped commons areas.*



*The entry to the complex is articulated with a gateway form structure.*



*Lighting in each space was provided by sources appropriate to the task and environment. Dining is provided with attached table/seating furniture for easy cleaning.*

***Honor Award:***

*Design Awards*



*Nice residential appearance. The elevations demonstrate excellent proportions and overcome the long horizontal lines normally associated with exterior circulation. Landscaping design was executed effectively.*





### *Renovation of Building 68 Rock Island Arsenal, Illinois*

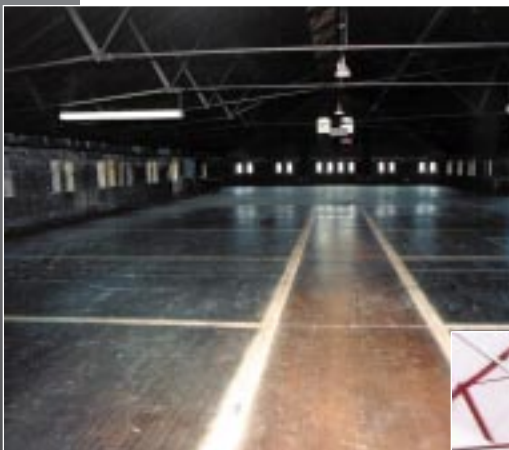
*Design Firm:*  
**URS Greiner Woodward Clyde,  
Columbus, Ohio**

*Design Agent:*  
**Army Engineer District, Louisville**

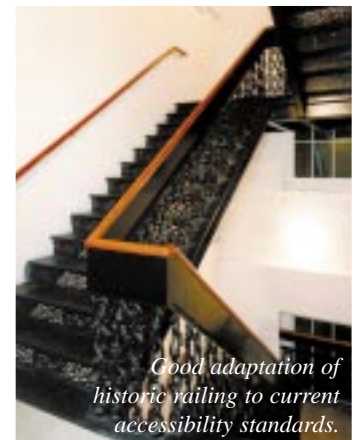
*Building 68 was one of several buildings selected to house Defense Finance and Accounting Service personnel. The building (built in 1878 and listed on the National Register of Historic Places) had to be renovated and modernized. The main challenges were to maintain historical integrity while satisfying modern technical requirements, and to phase the project while the building remained more than two-thirds occupied. The project was completed for \$15,500,000 in two years. This was \$900,000 below budget and six months ahead of schedule.*



*High-density modular results in a small modular footprint. To compensate for small stations the side panels are lower. The floor envelope has a very high ceiling, which opens up the space for the modular workstations.*



*The restoration of this attic creates a pleasant office environment. Indirect lighting of the exposed steel structure provides an honest appreciation of the building's parts.*



*Good adaptation of historic railing to current accessibility standards.*

## ***Renovation of Barracks, Building 47***

### ***Fort McNair, District of Columbia***

#### ***Design Firms:***

***Cochran, Stephenson and Donkervoet, Inc.,  
Baltimore, Maryland***

***Whitney, Bailey, Cox and Magnani, Inc.,  
Baltimore, Maryland***

***Henry Adams, Inc.,  
Baltimore, Maryland***

#### ***Design Agent:***

***U.S. Army Engineer District, Baltimore***

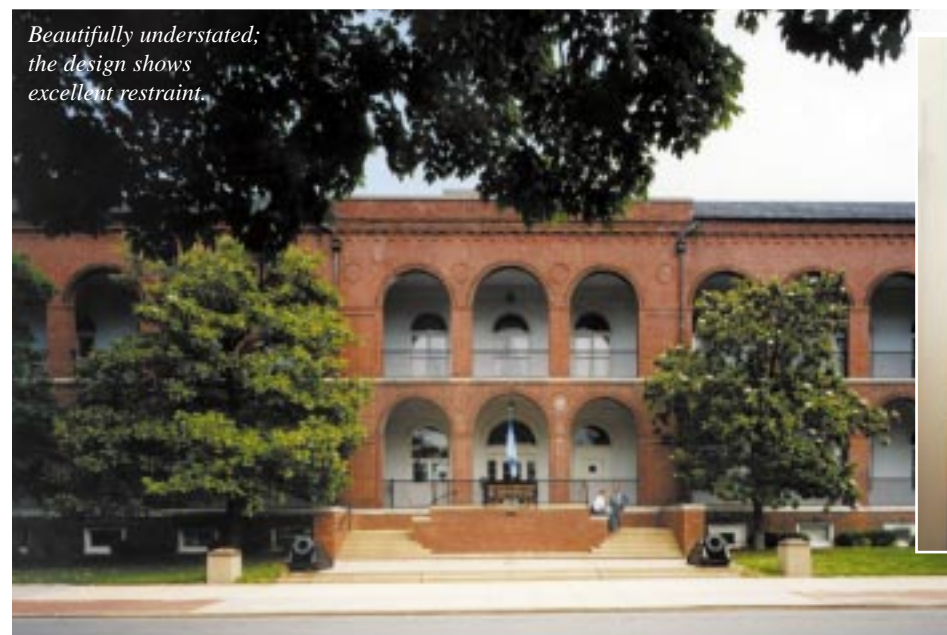
*Barracks Building 47, built in 1903, defines the north edge of the historic Parade Ground. It had to be totally renovated and modernized to the new 1+1 living standard inside, while retaining its historic appearance. The design team did this in part by creating symmetrical, geometrically regular interior spaces, by using natural finished wood trim, millwork and cabinetry, and by developing a vibrant but historically accurate color palette.*



*Jurors appreciated the “crossing” of the plan with a hierarchy of material and color.*



*Modern lighting was tastefully selected to compliment the historic integrity of the overall project.*



*Beautifully understated;  
the design shows  
excellent restraint.*



*Arch windows add light  
to room interiors*

***Merit Award:***

*Design Awards*



### **BRAC III KC-10 Maintenance Hangar Complex**

**McGuire Air Force Base,  
New Jersey**

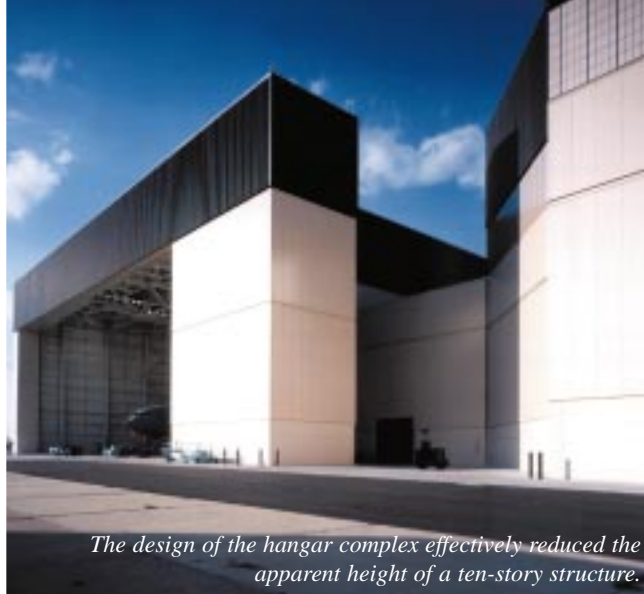
**Design Firm:**

**Frankfurt-Short-Bruza Associates, P.C.,  
Oklahoma City, Oklahoma**

**Design Agent:**

**U.S. Army Engineer District, New York**

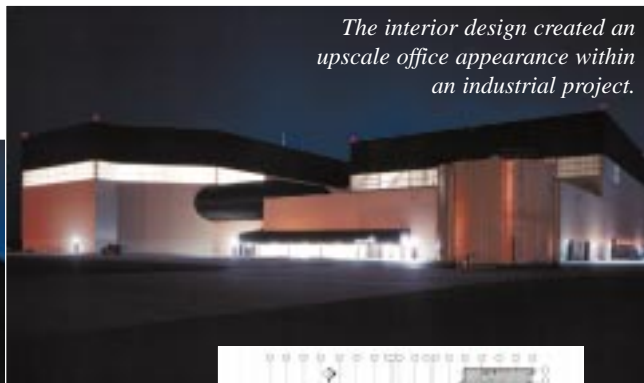
The 153,131-square-foot hangar complex is a state-of-the-art military aircraft maintenance facility supporting the local KC-10 fleet. The design consists of three 102-foot-high aircraft servicing bays, each dedicated to a distinct aircraft operation, which wrap around a central shop and support core. The exterior is composed of different bands of color and texture which add interest and visually shorten this facility. The curved profiled metal panels across the hangar nose bay and warehouse and the sloped deep rib metal panel canopy above the entry doors clearly define the main points of access and let the building be perceived in a more human scale.



*The design of the hangar complex effectively reduced the apparent height of a ten-story structure.*



*The long interior corridor was delineated with tasteful pilasters and patterned flooring to visually shorten the length of the corridor.*



*The interior design created an upscale office appearance within an industrial project.*



*The design team took what could have been a generic maintenance facility and created a building meeting the highest professional standards.*



*Outstanding for this project was the development of new fire protection criteria for maintenance hangars.*

## ***Design/Build Whole Neighborhood Replacement***

### ***Harrison Villa, Phase 1 Fort Lee, Virginia***

#### ***Design Firms:***

***Hunt Building Corporation,  
El Paso, Texas***

***Spectrum Land Planning,  
Simi Valley, California***

#### ***Design Agent:***

***U.S. Army Engineer District, Norfolk***

*The existing Harrison Villa was junior NCO housing built in the late 1950s. It had barracks-like townhouses with up to 10 units per building and parking in uncovered paved lots. This Phase 1 project demolished half the existing buildings and replaced them with new energy efficient housing. The 135 three-, four-, and five- bedroom units were built as two-story duplexes. The area was expanded into adjacent undeveloped land to develop a community of lesser density. New roads, utilities, recreation facilities, and pedestrian routes were incorporated into the design. The project was also the first Department of Defense family housing to be accepted in the EPA "Energy Star Homes" program. These homes are constructed to use 40% less energy than comparable units constructed to commercial standards. Annual energy savings are projected to exceed \$84,000 per year.*

*Duplexes provide suburban residential environment for military families.*



*Dining/living area delineated by personal furniture placement, which gives choice to occupants. Half wall in hall opens up space to living/dining area for less enclosed feeling.*



*Garages offset in adjacent units provide separation and feeling of privacy. Front porches promote community feeling and interaction potential.*



***Merit Award:***

*Design Awards*



### Summary Development Plan Schweinfurt, Germany

#### Design Firm:

**Black and Veatch Special Projects Corporation,  
Overland Park, Kansas**

#### Design Agent:

**U.S. Army Engineer District, Europe**

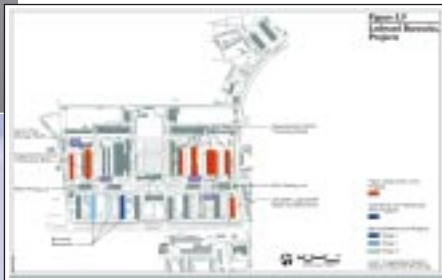
The Summary Development Plan (SDP) is a new Army master planning tool, and the SDP Schweinfurt is one of the first to be completed. It represents an innovative approach to master planning in that it streamlines the process to where it is practical for communities to participate in long-range planning. The SDP Schweinfurt enables the command staff to better understand community issues by presenting a large volume of valuable information in one concise document. It acts as a guideline for long-range development that gives continuity to base planning despite personnel changes and is a way to introduce new personnel to the community.



The report summarizes findings, and focuses on certain targeted areas.



Youth Center.



The report graphics are good and user friendly.



The process used generated a very workable document, clearly presented, with strong recommendations.



## ***Information Systems Facility Fort Carson, Colorado***

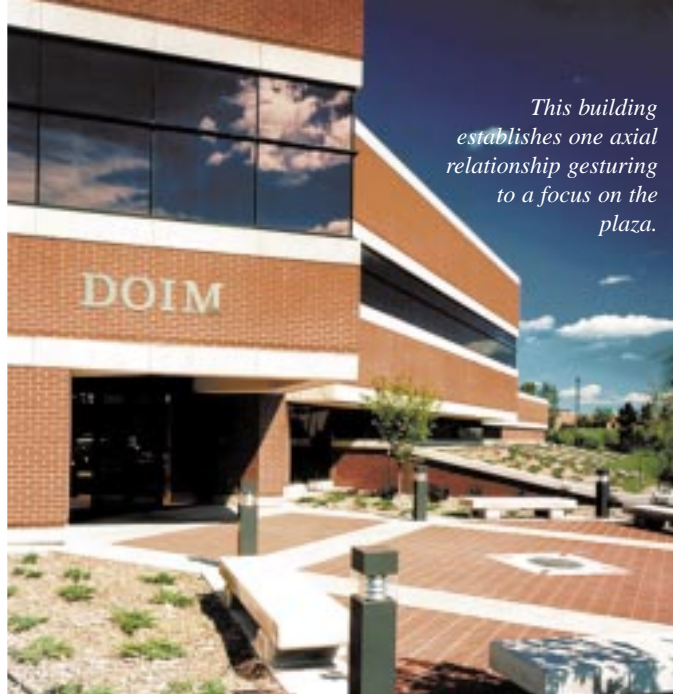
### ***Design Firm:***

***Peckham Guyton Albers and Viets, Inc.,  
St. Louis, Missouri***

### ***Design Agent:***

***U.S. Army Engineer District, Omaha***

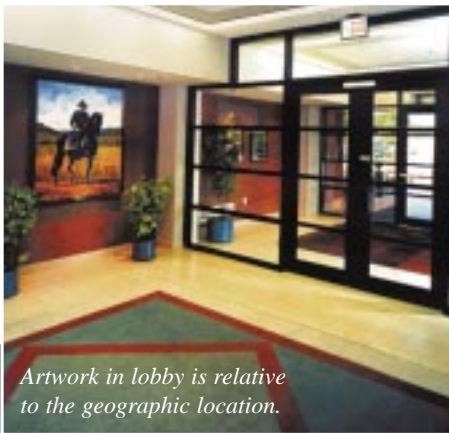
*The Information Systems Facility is the center of post communications. The 65,000-square-foot facility has two floors. The first floor contains the public entry, printing plant, mail room, computer room, and telephone switch. The second floor houses the commander's suite, training rooms, and staff offices. This simple layout uses the front-door/back-door character of the site, with the parking lot and main entry adjacent to the public access, and the loading dock and mail deliveries in back.*



*This building establishes one axial relationship gesturing to a focus on the plaza.*



*Sunlight streams in to provide natural light by good use of glass. Glass front on conference room provides open feeling.*



*Artwork in lobby is relative to the geographic location.*



*The siting of the project demonstrates consideration of the larger area beyond the building itself.*



***Recreational Pool /  
“Water Spout” Aquatic Center  
Fort Buchanan, Bayamon,  
Puerto Rico***

***Design Firm:  
Heery International, Inc.,  
Atlanta, Georgia***

***Design Agent:  
U.S. Army Engineer District, Jacksonville***

*The 6,000-square-foot Aquatic Center provides a resort-like area for all ages within the security of the base. It includes a 25-meter lap pool with a water polo area, a water recreation area with water slides, and a zero-depth-entry family pool area. Pool areas are zoned for different age groups, and include large shaded areas both in and out of the water, and various water features. Additional amenities include picnic areas, a volleyball court, and landscaping which provides a scenic environment. The entry building is fully functional and provides controlled entry and exit, space for a snack bar, game room, locker, toilets, showers, a multipurpose room, and administration areas, plus mechanical/ electrical and pump systems equipment spaces.*



*Overall the project is playful.*



*This project provides family areas for various age groups to relax and enjoy the community.*

***Chief of Engineers Award of Excellence:***

***San Antonio River Tunnel,***  
*San Antonio, Texas*

***Honor Awards:***

***Micro Modeling,***  
*St. Louis, Missouri*

***Vic Fazio Yolo Wildlife Area,***  
*Yolo County, California*

***Aransas National Wildlife Refuge,***  
*Aransas and Calhoun Counties, Texas*

***Mingo Creek Local Protection Project,***  
*Tulsa, Oklahoma*

***Merit Awards:***

***Matewan Local Protection Project,***  
*Matewan, West Virginia*

***Souris River Basin Flood Control Project,***  
*North Dakota and Saskatchewan, Canada*

***The Yazoo Basin, Channel Improvement Item 3B-1,***  
*Leflore County, Mississippi*

***NAPL Recovery Skimmer System,***  
*Philadelphia, Pennsylvania*

***Benedictine Bottoms,***  
***Missouri River Fish and Wildlife Mitigation Project***  
*Atchison County, Kansas*



Environmental Awards  
*Chief of Engineers* **Award of Excellence:**

*San Antonio River Tunnel  
San Antonio, Texas*

*Design Firms:*

*U. S. Army Engineer District, Fort Worth*

*San Antonio River Authority, San Antonio, Texas*

*Parsons, Brinkerhoff, Quade and Douglas, Inc., Chicago, Illinois*

*Frank J. Dillard and Associates, Inc., Houston, Texas*

*CH2M Hill, Dallas, Texas*

*Carter and Burgess, Inc., Dallas, Texas*

*James E. Keeter, Inc., San Antonio, Texas*

*HDR / Simpson, San Antonio, Texas*

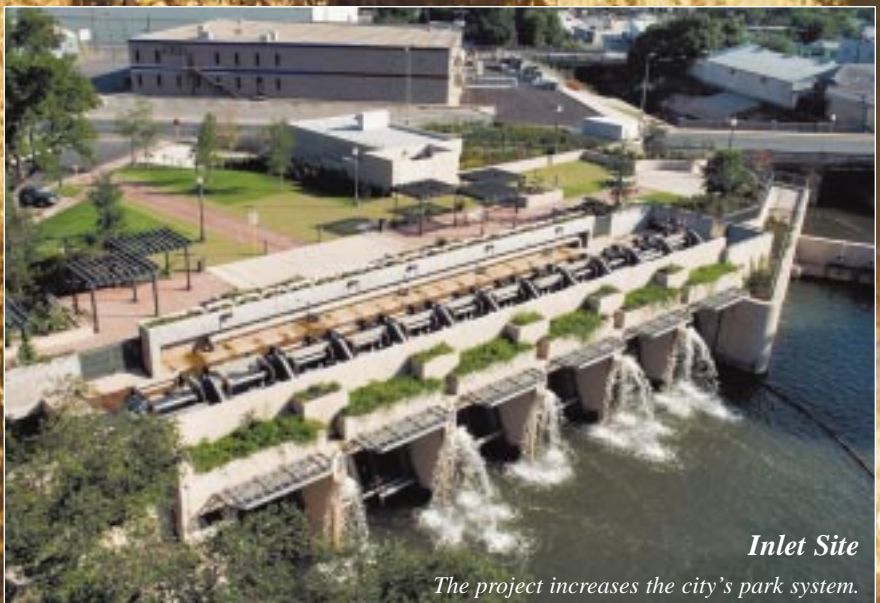
*ENSR Corporation, San Antonio, Texas*

*Fugro McClelland, Austin, Texas*

*Design Agent:*

*U. S. Army Engineer District, Fort Worth*

*Water features are sculpted into  
parks to provide scenic vistas.*



*Inlet Site*

*The project increases the city's park system.*



*The San Antonio River Tunnel is part of the San Antonio Channel Improvement flood damage reduction project. The tunnel is about 140 feet below the surface and 3.1 miles long. The tunnel is about 24 feet in diameter and provides protection from a 100-year flood event. The San Antonio Tunnel, and its sister tunnel on San Pedro Creek, are inverted siphons. This is the first known use of a tunnel siphon for a major urban flood damage reduction project. In October 1998, just months after the tunnel was finished, a flood of record threatened to devastate the downtown and Riverwalk areas. Without the tunnel, the downtown would have been under about six feet of water. It is estimated the San Antonio River Tunnel paid for itself in damages prevented in this one event.*

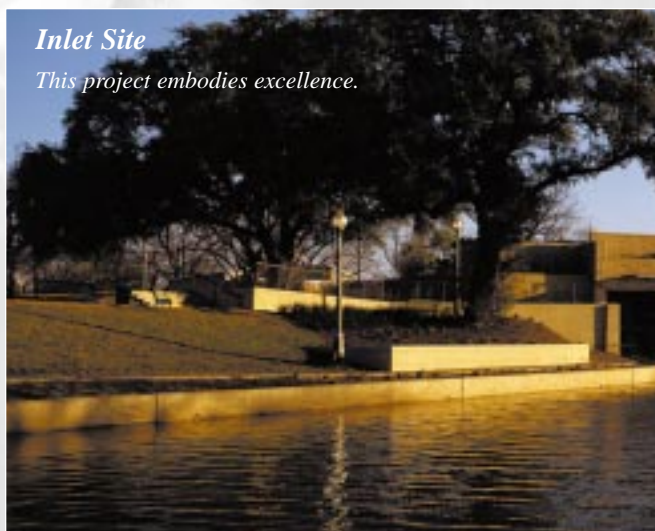
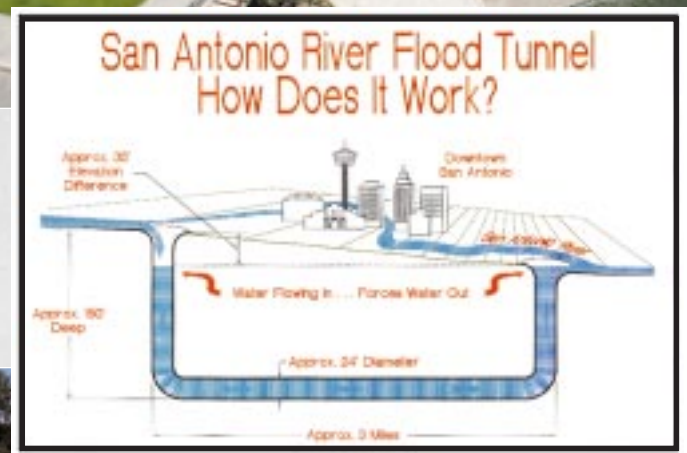


**Outlet Site**

*Forms fit the function.*



**Outlet Site**



**Inlet Site**

*This project embodies excellence.*



### *Micro Modeling St. Louis District*

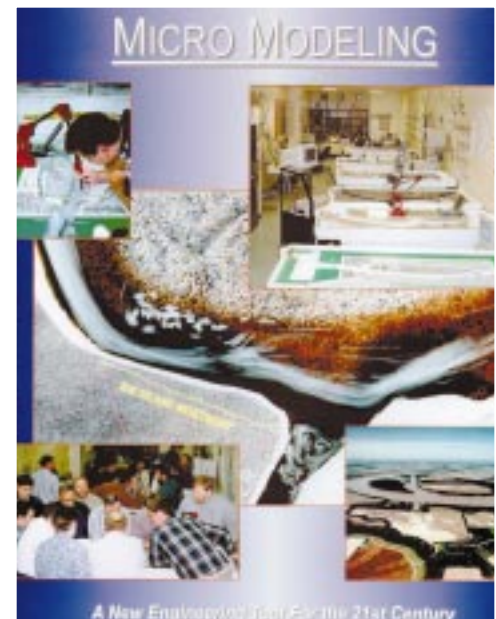
*Design Firm:*  
**U. S. Army Engineer District, St. Louis**

*Design Agent:*  
**U. S. Army Engineer District, St. Louis**

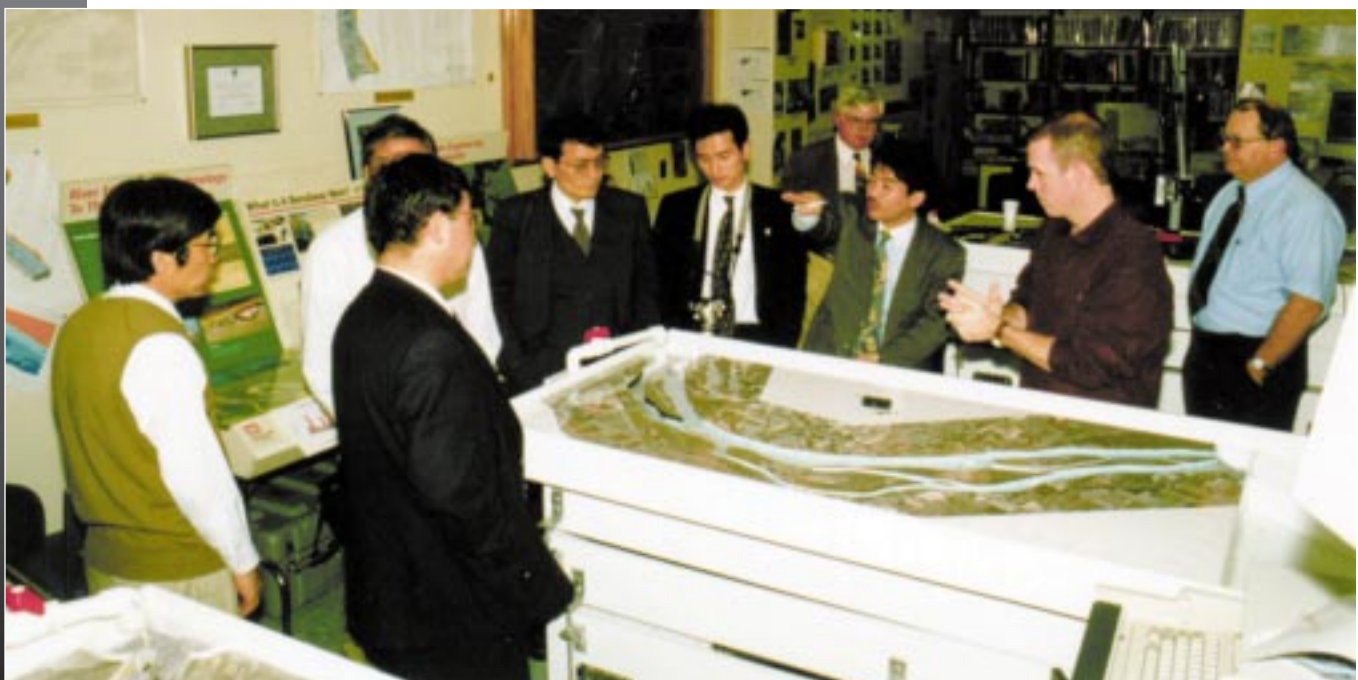
*Micro Modeling, developed in conjunction with the University of Missouri, Rolla, is an extremely small scale physical sediment transport and flow modeling system for rivers and streams. Revolutionary in scope, it was awarded a U.S. patent in 1997. The physical, moveable-bed sediment models are used to define master plan programming parameters, develop plans and specifications, forecast construction costs, and accomplish real-time analysis of channel response to river engineering and environmental applications. It is dramatically more cost-effective and time-efficient than previous physical modeling methods.*



*The model saves \$125 for every 1\$ invested.*



*This model has reduced the cost of scale model studies by 90% and study time by 90%*



## ***Vic Fazio Yolo Wildlife Area, Yolo County, California***

### ***Design Firms:***

***U.S. Army Engineer District, Sacramento***

***Ducks Unlimited, Inc.,***

***Rancho Cordova, California***

### ***Design Agent:***

***U.S. Army Engineer District, Sacramento***

*This project restores wetlands habitat lost during creation of the Sacramento River Flood Control Project and Yolo Bypass floodway system, which built more than 1,000 miles of levees along the Sacramento River to the Delta. The goal was to restore wetlands while meeting flood damage reduction, agricultural, and wildlife objectives and criteria. The solution evolved into a cooperative restoration project involving more than 20 organizations including federal, state, and local governments, private organizations, and agricultural landowners.*

*This broad partnering effort involving over 20 agencies, organizations, governments, and private citizens resulted in the largest wetland restoration in the western U.S. (3,600 acres).*



***Honor Award:***  
***Environmental***



### **Aransas National Wildlife Refuge Aransas and Calhoun Counties, Texas**

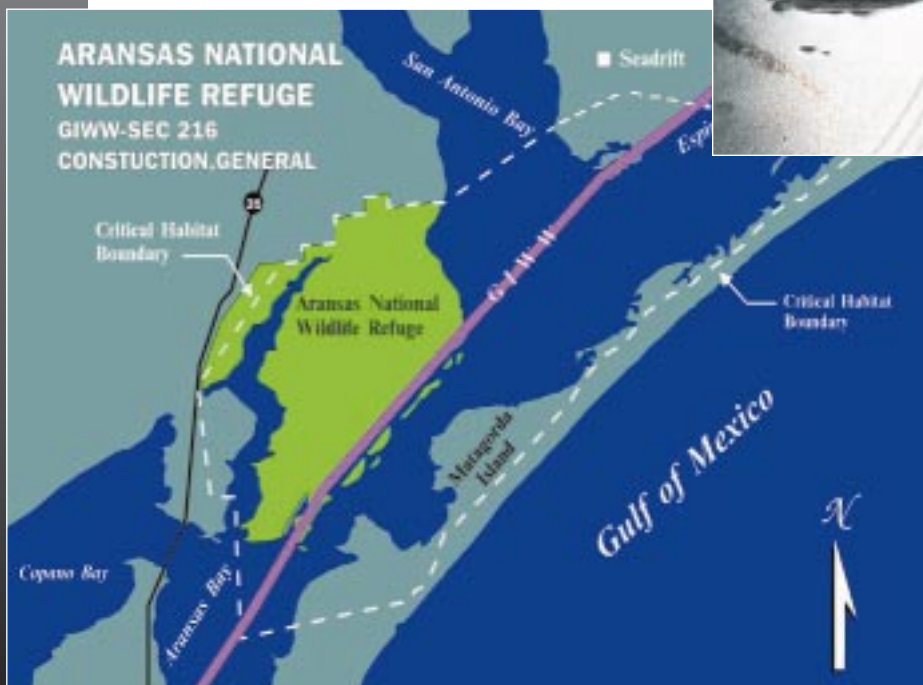
**Design Firm:**

**U.S. Army Engineer District, Galveston**

**Design Agent:**

**U.S. Army Engineer District, Galveston**

*This project involves a 31 mile stretch of the Gulf Coast Intracoastal Waterway, 13.25 miles of which lie within the Aransas National Wildlife Refuge. The goal of the project was to eliminate serious bank erosion and improve the habitat for the endangered whooping crane, which winters in the refuge. Articulated concrete block mats mold to the shoreline, and the open spaces in the blocks encourage plant growth along the shoreline. Geotextile tubes are used as a breakwater. These features do not change the terrain, protect the shoreline, and preserve the whooping crane habitat.*



*This project is exemplary for its marriage of environmental and commercial interests through effective partnering and environmental innovation.*

**Mingo Creek  
Local Protection Project  
Tulsa, Oklahoma**

**Design Firms:**

**U.S. Army Engineer District,  
Tulsa, Oklahoma**

**Mansur-Daubert-Strella, Inc.,  
Tulsa, Oklahoma**

**Wilbur Smith and Associates,  
Houston, Texas**

**The Benham Group,  
Tulsa, Oklahoma**

**Carter and Burgess,  
Fort Worth, Texas**

**Sverdrup Corporation,  
St. Louis, Missouri**

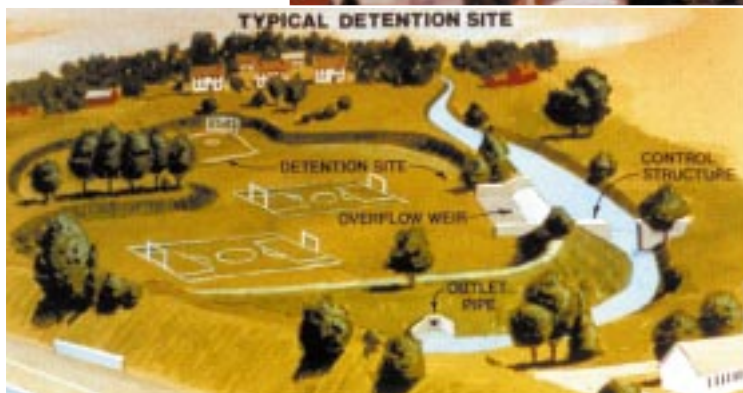
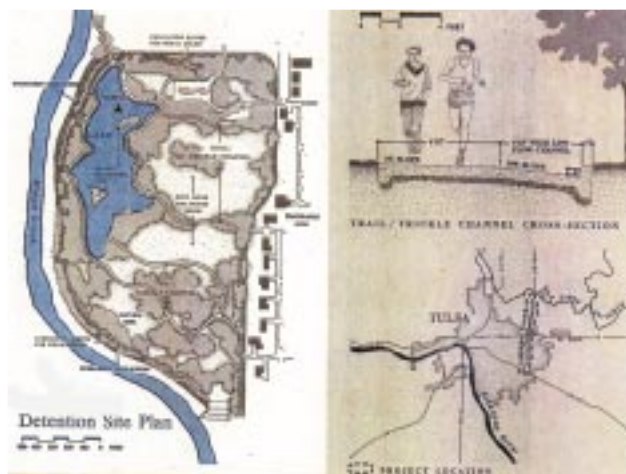
**Design Agent:**

**U.S. Army Engineer District, Tulsa**

In the 1980's, Tulsa led the nation in federal flood disaster declarations. Two-thirds of the declarations in Tulsa were the result of flooding in the Mingo Creek watershed. This project provides flood damage reduction improvements with 23 floodwater detention sites and 10 miles of channel improvements. Many of the flood damage reduction areas are popular places to jog, bicycle, fish, picnic, or play soccer. The design permitted preservation of 17 acres of hardwood bottomland in the Mingo Creek basin. About 870 new trees were planted in and around the detention sites, and the lakes in the detention sites are stocked with fish.



*Mingo Creek epitomizes multi-objective floodplain management.*



**Honor Award:**  
Environmental



## ***Matewan Local Protection Project Matewan, West Virginia***

### ***Design Firms:***

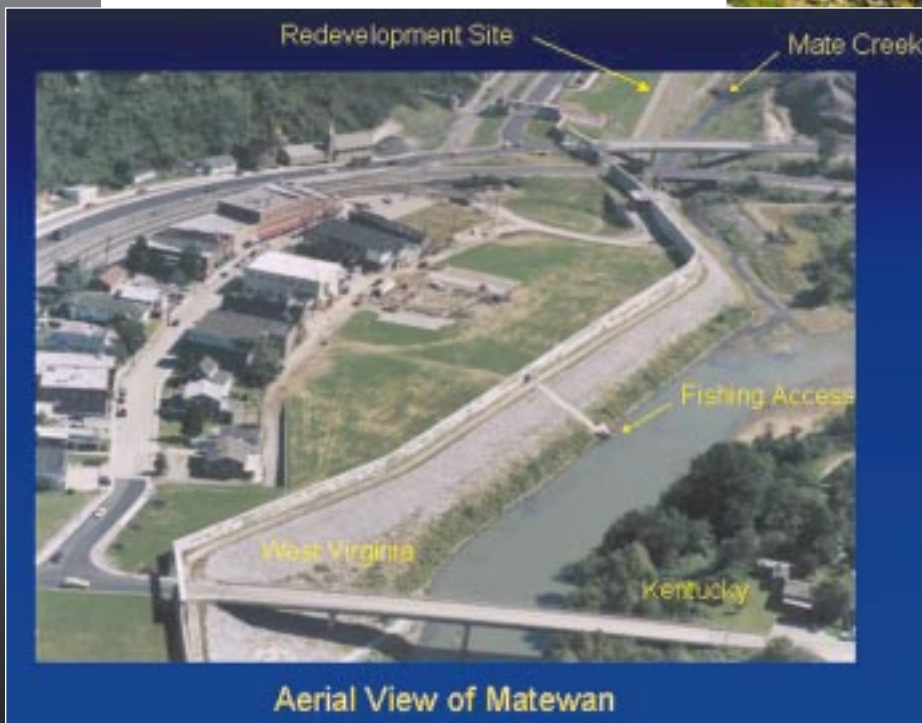
***DLZ Corporation,  
Columbus, Ohio***

***Booker Associates, Inc.,  
Lexington, Kentucky***

### ***Design Agent:***

***U.S. Army Engineer District, Huntington***

*Matewan has been repeatedly subjected to devastating floods. This project substantially reduces damages with a concrete floodwall, pumping station, and all necessary facilities. The design includes relocating utilities, highways, and railroad facilities. The project also provides sites for businesses and residential housing redevelopment, and for new structures to house the town hall and fire station. Graphics have been cast into the floodwall depicting local architecture, natural surroundings, and historical events including the 1756 Lewis Expedition, and the Hatfield-McCoy feud. The words "Welcome to Matewan" are also cast into the wall.*



*Flood protection for this historically significant town resulted not only in mitigation of recurrent flooding but also in support for local socio-economic development.*

### ***Souris River Basin Flood Control Project***

***North Dakota and Saskatchewan, Canada***

#### ***Design Firms:***

***Owen Ayres and Associates,  
Eau Claire, Wisconsin***

***Sverdrup Corporation,  
St. Louis, Missouri***

***Progressive Consulting Engineers,  
Minneapolis, Minnesota***

***KBM, Grand Forks,  
North Dakota***

***Kapur and Associates,  
Ashippun, Wisconsin***

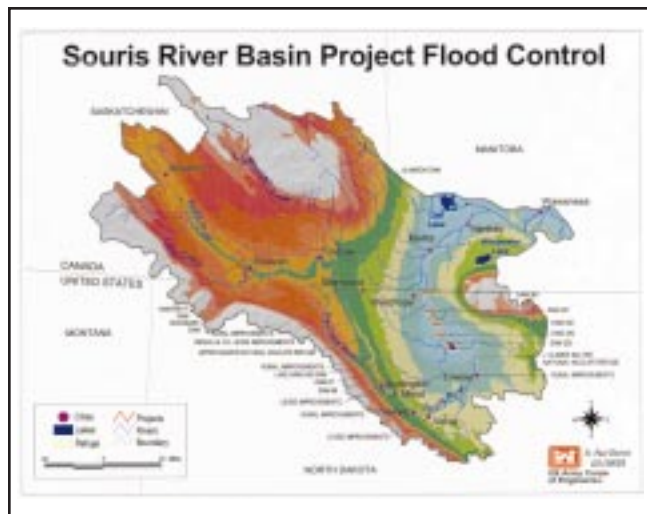
***Alfred Benesch & Company,  
Chicago, Illinois***

***Widseth, Smith, Nolting & Associates,  
Inc.,  
Crookston, Minnesota***

#### ***Design Agent:***

***U. S. Army Engineer District, St. Paul***

Throughout history, the *Souris River Basin* has endured flood-related tragedies. The *Souris River Basin Project* is a large, multifaceted approach to flood damage reduction that gives 100-year flood protection to Minot, N.D., and the entire *Souris River Basin*. The project successfully integrates floodwater storage with other Federal and Canadian multipurpose projects.



The project is impressive for its 24,000 square mile geographical extent and for its multi-national and agency coordination.





### *The Yazoo Basin, Channel Improvement Item 3B-1 Leflore County, Mississippi*

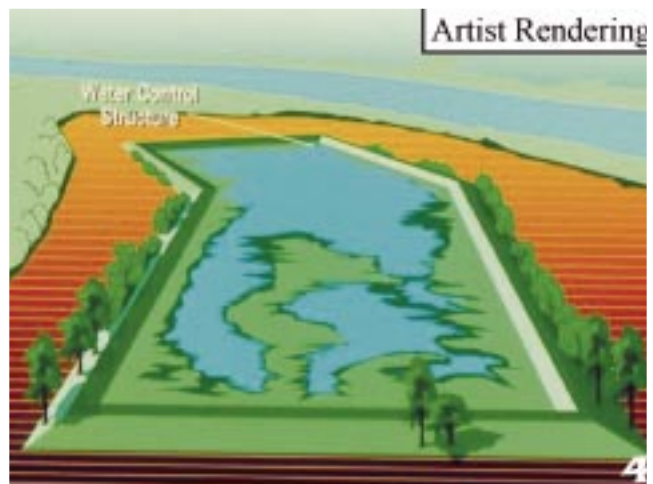
*Design Firm:*  
**U.S. Army Engineer District, Vicksburg**

*Design Agent:*  
**U.S. Army Engineer District, Vicksburg**

*Channel Improvement Item 3B-1 consisted primarily of five miles of channel improvements. The problems were performing the needed excavation, and placing the large volume of dredged material. Channel excavation was accomplished using a floating hydraulic dredge to reduce the impact on bank vegetation. The excavated material was pumped into a large confined disposal facility which is designed to operate as a waterfowl foraging area to serve a migratory bird flyaway.*



*This use of a former agricultural parcel integrated a wildlife haven along a nationally significant migratory bird flyway.*



*This project is an innovative approach to using dredged material to create wetland habitat on agricultural lands. Broad multi-disciplinary input avoided adverse impacts to forests, wetlands, and cultural resources, while earning praise from agricultural land owners.*

## ***NAPL Recovery Skimmer System***

***Philadelphia, Pennsylvania***

### ***Design Firms:***

***U.S. Army Engineer District, Baltimore***

***Malcolm Pirnie, Inc.,  
White Plains, New York***

### ***Design Agent:***

***U.S. Army Engineer District, Baltimore***

*The Defense Supply Center Philadelphia was scheduled for closure under the 1993 Base Realignment and Closure Act. Environmental investigations found Non-Aqueous Phase Liquid (NAPL) petroleum in the groundwater. The volume of NAPL was estimated to exceed one million gallons. Baltimore District determined that a skimmer system would be most effective. Two types of skimmers were used. Pneumatically activated skimmers to recover only NAPL and no groundwater are very energy efficient. For wells where NAPL recovery was slow, passive skimmers, which consume no electrical energy, were installed.*



*This project demonstrates a quick, responsive, efficient, and low-cost process which to date has removed 220,000 of the 1,000,000 gallons of NAPL for only \$0.35 per gallon, dramatically exceeding project expectations.*



***Merit Award:***

***Environmental***



### ***Benedictine Bottoms Missouri River Fish and Wildlife Mitigation Project***

***Atchison County, Kansas***

#### ***Design Firms:***

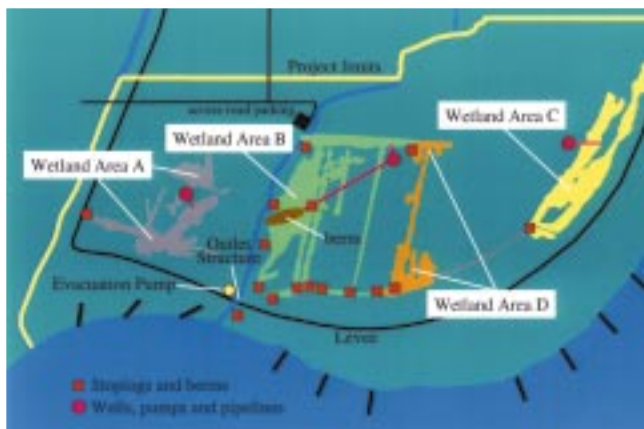
***U.S. Army Engineer District, Kansas City***

***U.S. Fish and Wildlife Service,  
Columbia, Missouri***

#### ***Design Agent:***

***U.S. Army Engineer District, Kansas City***

*The Missouri River Fish and Wildlife Mitigation Project restores fish and wildlife habitat lost to the construction and maintenance of the Missouri River Bank Stabilization and Navigation Project between 1912 and 1980. Selected mitigation sites must be compatible with the authorized purposes of the navigation project and have no adverse effects on navigation, the capacity of existing levee, or on the floodway. At Benedictine Bottoms, Kansas City District restored a wetland-bottomland-timber-wetland-prairie complex in the floodplain and created diversity in the aquatic habitat of the adjacent channel without disturbing navigation or the continuing operation of Missouri River Levee Unit R440.*



*The project is innovative as a habitat restoration project. Through coordination with four state fish and wildlife agencies, the design and construction team has developed four major wetlands systems and shoreline habitat areas.*



## *Design Awards*     *Jury Members*

*Jurors:*

*Standing (L to R):*  
*Mr. Richard Lippy, P.E.*  
*Mr. Marc R. Hurwitz, P.E.*

*Seated (L to R):*  
*Mr. Thomas Kerns, FAIA*  
*Ms. Joyce Penrod, IIDA*  
*Ms. Susanne DiGeronimo, FAIA*  
*Mr. Thomas James, RLA, ASLA*



## *Environmental Awards*     *Jury Members*

*Standing (L to R):*  
*Mr. Michael F. Schmidt, P.E.*  
*Dr. Wulin Li, Ph.D, P.E.*  
*Mr. Raj Barr-Kumar, FAIA, RIBA*

*Seated (L to R):*  
*Mr. Robert W. Good, ASLA*  
*Ms. Ayodele McClenny*  
*Mr. Michael G. Pavlides*





**Ms. Suzanne DiGeronimo, FAIA.** Ms. DiGeronimo is co-founder with her husband, Louis, of DiGeronimo, P.A., a New Jersey firm involved in the practice of architecture, landscape architecture, planning and construction management. Ms. DiGeronimo graduated Summa cum Laude from the Fashion Institute of Technology, Interior Design, in 1967. She received her Bachelor of Architecture Degree in 1973 from Cooper Union in New York. She is a licensed Professional Planner in New Jersey and a licensed Architect in New Jersey, California, Pennsylvania, New Hampshire, New York, and Puerto Rico. Ms. DiGeronimo has served as 1991 Chair of the American Institute of Architects Practice Committee and has held numerous positions in the Society of American Military Engineers (S.A.M.E.). Her awards include the Governor's Certificate of Achievement in 1984, the S.A.M.E. Gold Medal in 1995, and the Certificate of Merit for Outstanding Performance as Vice President of S.A.M.E. 1995-1997.

**Mr. Marc R. Hurwitz, P.E.** Mr. Hurwitz received his Bachelor of Science in Electrical Engineering from Washington University in St. Louis, and he is a registered professional engineer in Maryland. Mr. Hurwitz is a project manager in the consulting engineering firm of James Posey Associates. Prior to joining James Posey Associates, Mr. Hurwitz was associated with Hillen Electrical Company of Owens Mills, Maryland. Some of his significant projects include the Jewish Museum of Maryland, Levine Music Hall Addition at Western Maryland College, and the WBAL television studios in Baltimore. He has held many offices in the Maryland Society of Professional Engineers and will become its President in 2001. In addition, he is active in the Institute of Electrical and Electronic Engineers and the Illuminating Engineering Society of North America.

**Mr. Thomas James, RLA, ASLA.** Mr. James is an Urban Designer, Land Planner, and Landscape Architect with over 24 years experience in planning and landscape architecture in both the public and private sectors. He holds a Bachelor of Arts with Honors in American Studies, Anthropology, and Landscape Architecture from the University of Delaware and a Masters of Landscape Architecture with Distinction from Harvard University. Prior to starting his own firm he was Managing Design Principal for SWA group and Chief Operating Officer and Senior Vice President of HOH Associates. Mr. James has a wide range of project design, master planning, and urban design experience. His projects include the New Terminal Complex, Middle and North Parking Garage, National Airport, Washington, DC, with Cesar Pelli and Associates, and the Portsmouth Naval Hospital, Portsmouth, Virginia. He is a member of the American Society of Landscape Architects, the Urban Land Institute, and the National Association of Industrial and Office Parks.

**Mr. Thomas L. Kerns, FAIA.** Mr. Kerns is the principal and founder of Kerns Group Architects, a mid-sized firm located in Arlington, Virginia. A graduate of Ohio State University, he was awarded the title of, "Distinguished Alumnus" in 1992 for his contributions to the architectural profession. Mr. Kerns has won numerous awards for commercial, residential, institutional and ecclesiastical buildings including The Secretary of Defense, Design Excellence Award for the Henderson Hall Multipurpose Facility, Arlington, Virginia. His other awards include The Interfaith Forum on Religion, Art and Architecture Award for St. Francis Episcopal Church, Great Falls, Virginia; The American Wood Council Design Award for the Montessori Country School, Darnestown, Maryland; and more than 25 AIA Chapter Awards. Mr. Kerns was 1984 President of the Northern Virginia Chapter of AIA and is an active juror at national universities.

**Mr. Richard D. Lippy, P.E.** Mr. Lippy is a graduate of the Johns Hopkins University with a Bachelor of Science in Mechanical Engineering. Mr. Lippy recently retired from Henry Adams, Inc., a 100 year old mechanical and electrical design firm with offices in Baltimore and Washington, DC, where he served as Director, Senior Vice President and Chief Engineer. He has designed various hospitals, life care and military facilities and has specialized expertise in renovations. His projects include the Baltimore Veterans Administration Hospital, Corcoran Gallery of Art, and Dunham, DeWitt and Kimbrough Army Hospitals. Mr. Lippy has reviewed projects for the Baltimore Building Congress Craftsmanship Awards, and has also served on the engineering award panel for the Consulting Engineer's Council of Maryland. He is a member of the ASHRAE, ASPE, BOCA, NFPA and CSI.

**Ms. Joyce A. Penrod, IIDA.** Ms. Penrod is a Facility Planning Project Manager for the Ohio Department of Administrative Services, Columbus, Ohio. She graduated Summa cum Laude from Ohio University in 1980 with a Bachelor of Science, Health & Human Services, Interior Design. She is a Certified Interior Designer and has held a certificate from the NCIDQ since 1982. She served as Combined Charities Campaign Chairman, Ohio University Interior Design Advisory Board Member, NCIDQ Design Juror, and has held a number of positions with the Institute of Business Designers (IBD) and the International Interior Design Association (IIDA). She has received the Ohio University Alumni Award of Recognition 1987, IBD Chapter Certificate of Appreciation 1993 and 1995, and Columbus Chapter, American Institute of Architects 1997 Honors Award for Offices of the State Architect of Ohio. Ms. Penrod currently is serving the final year of her three-year term as IIDA Government Forum Director.

**Mr. Raj Barr-Kumar, FAIA, RIBA.** Mr. Barr-Kumar is president of Barr-Kumar Architects Engineers PC, an international architecture, engineering, interiors, and construction management practice based in Washington, DC. He has designed award winning embassies, medical facilities, hotels, restaurants, office buildings, and custom homes including the Embassy of Sri Lanka, and World Bank in Washington, DC. Mr. Barr-Kumar was president of the American Institute of Architects in 1997, and has lectured extensively at international symposia and at universities including Harvard, Yale, UCLA and London. Mr. Barr-Kumar has chaired design awards including Bienal do Brasil, International Marble Design Awards, Governor General's Design Awards in Jamaica, and numerous AIA design awards programs.

**Mr. Robert W. Good, ASLA.** Mr. Good is a founding partner and principal of Stephenson & Good, a Washington, D.C. based landscape architectural, planning and urban design firm. Mr. Good holds a Bachelor of Landscape Architecture from Cornell University and a Masters of Landscape Architecture from the University of Michigan. A registered landscape architect in Maryland, Virginia and Connecticut, he has been the chairman of the American Society of Landscape Architects Committee on the National Capital. He has received numerous awards for his work including the Secretary of Defense, Excellence in Design Award for the Air Force One Presidential Fleet Complex at Andrews Air Force Base and the Henderson Hall Multipurpose Facility/ NMAA Headquarters at Henderson Hall, Arlington, VA. Among his works are the master plan for the Residence of the Vice President and the restoration of the Memorial Amphitheater Grounds at Arlington National Cemetery.

**Dr. Wulin Li, Ph. D., P.E.** Dr. Wulin Li received his Bachelor of Science degree from Beijing Polytechnic University in Structural Engineering. He received his Master of Science and Ph. D. in Civil Engineering from the University of Maryland. He is an expert in building structural rehabilitation and renovation. Dr. Li is Director of Structural Engineering in CAD-CON Consulting, Inc., a multi-discipline engineering consulting firm in Manassas, Virginia. Dr. Li has also accomplished engineering research projects sponsored by National Science Foundation and Federal Highway Administrations. His publications include "Strengthening of Composite Steel-Concrete Bridges", Journal of Structural Engineering, ASCE, December 1995. He is a currently registered Professional Engineer in Maryland, Virginia and Washington, D.C. He is the chairman of structural engineering committee of National Capital Section of American Society of Civil Engineers.

**Ms. Ayodele McClenney.** Ms. McClenney is the Manager of Energy and Environmental Programs at George Washington University in Washington, DC. She holds a Bachelor of Civil Engineering degree from Howard University School of Engineering and a Juris Doctor from the University of Maryland School of Law. Her career has been centered in Environmental Management with experience in financial planning, engineering design and construction, and community consensus building for environmental projects. She has practiced in the public and private sectors including several years in Japan with the U.S. Air Force. Ms. McClenney is founder and president of The McClenney Group, Inc., a consulting group with an emphasis in research, analysis, quality control and technical documentation. She has supported the American Society of Civil Engineers and is active with the Association of Professional Energy Managers, various cross-functional think tanks, and other networking organizations.

**Mr. Michael G. Pavlides.** Mr. Pavlides is Vice President at Michael Baker Jr., Inc. He received his Bachelor of Science in Civil Engineering from Lehigh University and his Master of Science in Civil Engineering from George Washington University. He has 29 years of experience in water resources, coastal engineering, evaluation and implementation of computer mapping and Geographic Information Systems (GIS), and emergency management and hazard mitigation planning projects. Mr. Pavlides' Famine Early Warning System GIS project for the U.S. Agency for International Development earned a State of Maryland Consulting Engineers Council Award for Engineering Excellence, becoming the first project of its type to win such an award. Mr. Pavlides is the President of the Association of State Floodplain Managers Foundation. He is also a member of the American Society of Civil Engineers and the American Society for Photogrammetry and Remote Sensing.

**Mr. Michael F. Schmidt, P.E.** Mr. Schmidt is a 1984 graduate of the University of Florida with a Bachelor of Science in Environmental Engineering. He is a registered professional engineer in Florida and has over sixteen years experience in water resource, watershed, and stormwater master planning, modeling, facilities design, and permitting. He serves as stormwater model caretaker and stormwater/watershed director for Camp Dresser and McKee's Water Resource Practice Group. Mr. Schmidt has been the senior technical advisor and director for storm water master and facility plans for many cities and counties. He is an advising instructor for landfill and storm water management courses at the University of Florida, Center for Training, Research and Education for Environmental Occupation. He also has been an instructor for Storm Water Management Model courses at Oregon State University, the University of Colorado, and the American Society of Civil Engineers.



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*Principal Assistant for Military Programs*

**Mr. Dwight A. Beranek, P.E.**

*Chief, Engineering and Construction Division*

*Office of the Deputy Commanding General for Civil Works*

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*Engineering & Construction Division*

**Mr. James J. Bickley, P.E.**

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*Engineering & Construction Division*

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**James J. Bickley, P.E.**

*Chief of Engineers Design and Environmental Awards Program*

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